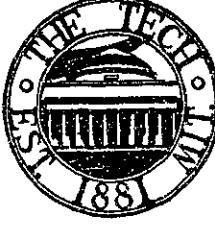


Welcome To M.I.T. Open House

The Tech

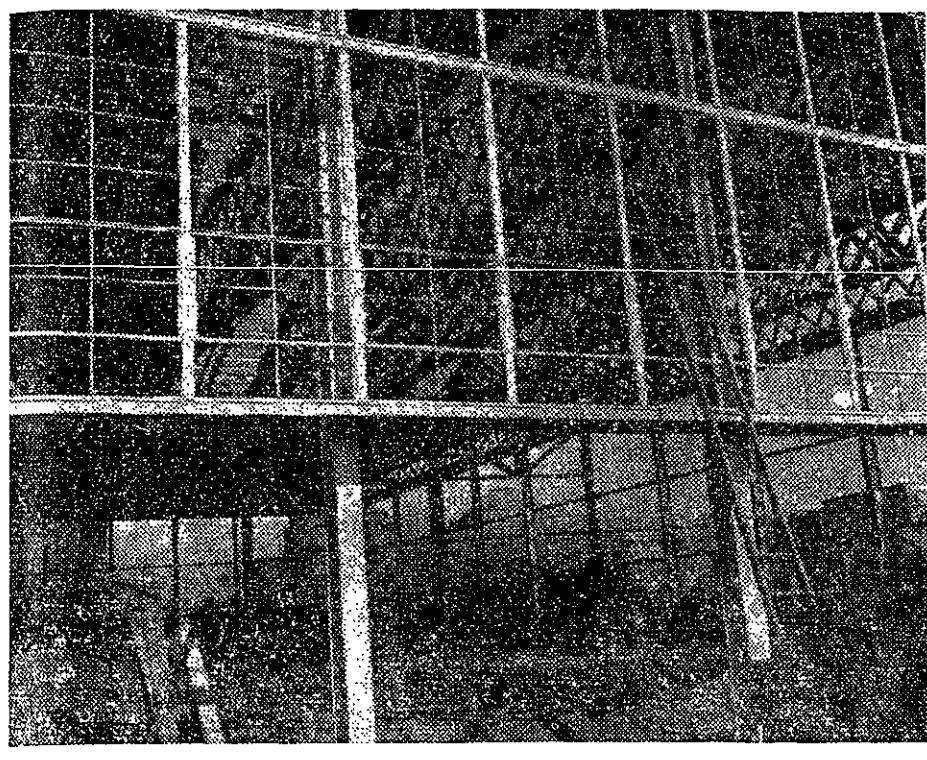


Vol. LXVIII, No. 24

CAMBRIDGE, MASS., FRIDAY, APRIL 30, 1948

PRICE TEN CENTS

M.I.T. FUTURE PLANS OUTLINED



The above picture is a recent shot showing the progress of the new Rockwell Field House on Briggs Field. Original plans for the building call for a one-twelfth mile indoor track, jumping and vaulting pits, and space and facilities for practicing seven other sports. A cage for baseball is also included. The field house is just across Massachusetts Avenue from the Institute's main building (which can be seen through the steel supports) and will be connected to the present Briggs Field House. Our new athletic building will be completed sometime this summer.

Building Marks Post-War Tech Millions Spent On Facilities

Technology has stirred like a giant from his sleep to set about rebuilding, repairing, and enlarging its campus after the several years of wartime lethargy. The most recent development is the proposed tennis pavilion near the asphalt courts at the west end of Briggs Field.

Construction is scheduled to begin this week on the shelter which will be equipped with toilet facilities for men and women, a locker room for storage of clothes and racquets, a check room and an office for the tennis manager. Facing the courts there will be a porch-like pavilion set in back of a section of open lawn, on which will be arranged benches for the use of players and spectators.

Hayden Memorial Library

Of even greater interest to Institute students and the visiting public is the gaping chasm between Build-

ing 2 and Walker Memorial, which will be filled by autumn of 1949, according to present plans with the completed Charles Hayden Memorial Library. In addition to its basic purposes as a center of management and reference for one of the country's largest collections of scientific and engineering knowledge, the library will provide a humanities section. It will also serve as a center of research on scientific aids to learning, including the laboratories supported by a \$100,000 grant from the Carnegie Corporation.

Field House

Observers watching the construction of the Rockwell Field House west of Massachusetts Ave. can see the roof planks darkening the maze of wooden trusses overhead. Much of the upper walls are light steel

(Continued on Page 7)

40,000 People See 350 Shows At Open House

Planes To Circle Tech; 2000 Students' Work Went Into Preparations

350 departmental and extra-curricular exhibits are ready to be viewed by the public, as the Open House Committee is putting the finishing touches on the preparations. 40,000 men, women, and children are expected to fill the Institute's halls on Open House Day.

According to the latest news from the Open House Committee, special floodlights are to be set up on both sides of the Charles to illuminate the scene and provide an even more festive atmosphere.

Planes to Mark Occasion

Squadron UMF 217 of the Marine Air Reserve, stationed at Squantum, Mass., will fly over Technology between 2 and 3 p.m. on Saturday. The squadron consists of about 20 corsairs. Charles O. Miller, '49, will be in one of the planes, and will try to establish radio contact with Donald Whitmore, '49, who will be located near the Technology Sailing Pavilion. Miller and Whitmore are largely responsible for the presence of the planes.

The Tech Flying Club, a comparatively new class B student activity, has received permission from the State Aeronautical Commission and school authorities to land a Cessna 140 on Briggs Field on Friday morning. It will be taxied down Memorial Drive to the field between Building 8 and the Dormitories, where it will be displayed during Open House. This plane is similar to the one the Flying Club owns at present. The Flying Club will present another exhibit in Walker Memorial.

About 120 students are members of the Open House Committee. According to Otto E. Kirchner, 49, chairman of the Presentations Committee, over 2,000 people worked, some as far back as last Thanksgiving.

"What are MIT's plans for new students and recreational facilities and what have the big research contracts got to do with education?" were the questions answered by Dr. James Killian in his recent address over WMIT. Dr. Killian, Vice President of the Corporation, presented the outline of the Institute's plans for the present and future which were drawn up at the end of the war and call for a total expenditure of \$29,000,000.

Building a stronger more centralized M.I.T. is the core of the plan. Also incorporated in the program is a gradual decrease in enrollment bringing the total enrollment from the 5660 of

last fall to an estimated 4500 in the near future. In the face of the universal trend toward mass education the aim of the Institute is quality rather than quantity.

The \$9,000,000 which has already been raised has gone into projects, the details of which are covered in another part of this issue. Of the remaining \$20,000,000 which is to be raised in a national campaign next year, half will be used in increasing the Institute's endowment and the rest in developing new recreational facilities.

An auditorium seating 1200 people and new dormitory facilities on the West Campus are being planned. The long range plan for living accommodations contains provisions for additional staff housing, making the Institute a more self-contained independent unit.

Research and Education

Dr. Killian pointed out the bearing that the big research contracts have on education at the Institute. These contracts are an item of prime importance, involving the expenditure of \$10,000,000 a year, even though the Institute turns down more than it accepts. Without these contracts it would be impossible to maintain the large student body since a large proportion of the upper classmen and graduate students doing research use the facilities afforded by these contracts.

In pointing out the danger of these contracts the speaker outlined a short code which the Institute seeks to adhere to: (1) The primary purpose of an educational institution is to increase knowledge, not to compete with industry, (2) Imposition of restrictions on publication of discoveries can be incompatible with the basic concept of a school. Only in extreme circumstances of national emergency can this last rule be altered.

QED Reveals MIT's War Role

National, Local Tasks Borne By Staff, Alumni New Volume Discloses

QED, As complete an account as possible, within the limits of required security, of M.I.T.'s role in the World War II period: 1939-1947. By John Burchard. 325 Pages; Cambridge, Mass. Technology Press (and New York, N. Y. John Wiley and Sons).

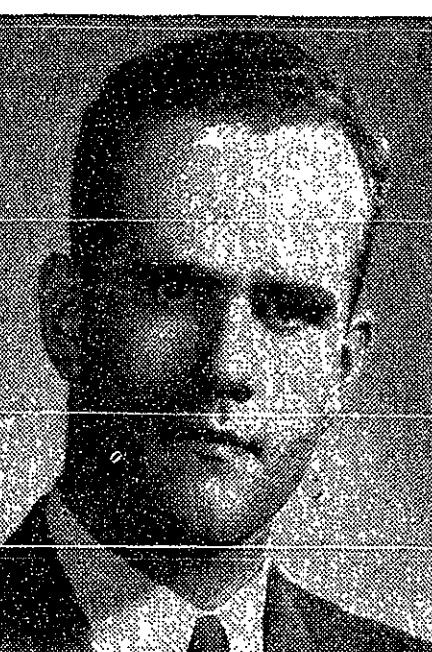
By ARCHIE H. HARRIS

There are very few people who are not acquainted with the fact that the war played an important part in Technology's history. However, a complete report of M.I.T.'s part in the war, which is about to be published, will provide many very interesting, and for a large part, unknown facts about the activities of the school during the period 1939-1947.

"QED" deals with the three basic contributions of M.I.T.'s staff; one at the national administrative level; one in important research in Cambridge; and one in the perpetuation of the fundamentals of a solid engineering education.

On the national front, Technology staff members and alumni participated in at least one phase of

(continued on Page 2)



J. DAVID CIST, '48
Permanent President

to the governing body was passed by a margin of over 68%. The Federation Plan, which proposed to change the size of Institute Committee by reducing the representation of student activities, was defeated by a much smaller margin.

Constitution Changes

The proposal presented by the Institute Committee for increasing the number of signers of a petition

Reeves Wins '50

In the sophomore class, the Unification Party placed three men on the victorious slate: President, John T. Reeves; Secretary-Treasurer,

The Tech

VOL. LXVIII FRIDAY, APRIL 30, 1948

NO. 24

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QED

(Continued from Page 1)

every portion of the picture. Advisory boards to the President, the Army and Navy and many bureaus of the government are spectacularly spotted with prominent names connected with the M.I.T. family.

On the local front, research constituted the greatest part of the Institute's contribution to the final victory. In this capacity, the Division of Industrial Cooperation played the integrating role between the school and the various contracting agencies involving the many projects carried on in the laboratories and in the many subtle buildings throughout the Greater Boston area.

D.I.C. As Integrating Factor

Almost from the very beginning, floor space was a major factor in the problematical task that D.I.C. had to face. Handling \$100,000,000 worth of contracts in the five year period is no mean job for an educational institution. Yet, by careful selection of personnel and equipment, it was able to coordinate many vital research projects for industry and government.

The biggest single project undertaken was the development of radar for use in both short and long range problems. This was carried on in the Radiation Laboratory with large contributions by scientists and engineers from many colleges.

Educational Problems

"QED" finally deals with the problem of education under these most trying conditions. Both the Army and Navy had educational programs for its personnel and Technology played a large part in both services' plans.

On the civilian level, the Institute was careful to allow a minimum of alteration of its curricula and at the same time gave the students every chance to obtain as high standing as possible before induction. This was accomplished mainly by the inauguration of the three term system.

A Purposely Limited Scope

"QED" presents a comprehensive survey of M.I.T.'s active participation in the war program. It is limited in its scope, purposely, by dealing only with phases of the program directly related to M.I.T. Hence, there are cases where a story is, of necessity incomplete.

On the whole, the book is a living testimonial to those men who served the country in a time of need, with little in the way of reward except personal satisfaction, and little if any public recognition.

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Our homecooked food cannot be beaten in price or quality.

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Meal tickets for Tech students.

OPEN 24 HOURS A DAY

7 DAYS A WEEK

Open House Comm.

Deserves A Byline

Much credit for the success of the 1948 Open House should go to the students who worked to make it possible.

The Student Open House Committee included:

Co-chairman Kenneth S. Brock, '48, and William R. Zimmerman, '48, Secretary-treasurer, John R. Kirkpatrick, '48, Arthur A. Wasserman, '51, and Lester W. Preston, Jr., '51.

The Presentations Committee included:

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Javees Connect

For First Victory

Cambridge Bows 12-6;
Mehler, Ferenz Star

Tuesday, at Fresh Pond Field, Cambridge, the Junior Varsity baseball squad marked a notch in Technology history by scoring the first victory in baseball's initial season at Tech. The jayvee squad showed power at the plate and ability in the field in racking up its impressive win over a Cambridge Junior College nine, by the score of 12-6.

The squad, including outfielders Pete Philiou, Bill Breuer, and Jack Freitag; infielders Moulton, Fletcher, Jacobanis, and Andy Ferenz, and catcher Captain Gene Lubarsky, collected nine hits with each member on the squad, with the exception of pitcher Mehler, getting at least one safety. Lubarsky knocked out two safeties while Ferenz's single blow was a round-tripper, coming in the second inning. Tech hits accounted for six earned runs while errors by the opposition allowed six unearned runs to reach home.

In addition to the starting lineup, outfielders Dick Strauss and Bern Cohen, and infielder Lee Rhode, saw action.

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Technology Outing Club Scales Buildings, Plans Rock Climbing And Bicycling Trips

The men you may have seen climbing down from buildings today belong to the M.I.T. Outing Club, a group of 400 men who derive pleasure from the outdoors. During the winter the O.C. holds weekly one or two-day skiing trips to Vermont and New Hampshire ski resorts.

During the spring many rock climbing trips are held. Destination of these is usually the Rattlesnake Cliffs in the Blue Hills. On May 15 the outing club will travel to Franconia Notch. Bicycling trips also prove popular, especially in conjunction with girls' colleges in the area.

Next weekend, for example Out-

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'48 Open House Climaxes Year

16th Technology Event Crowns Long History Of Science In Review

Open House at Technology is dedicated to the purpose of exhibiting the latest in the fields of science and engineering and giving the public an opportunity to get acquainted with Technology.

In 1923 the combined professional societies decided to have the first real Open House at Technology. Plans were made to accommodate five hundred to one thousand visitors on the eve of Tuesday, May 8.

Affair Expands

Elaborate plans were made for the 1924 event. Six thousand people attended, and the most popular exhibits proved to be the testing materials laboratory, the X-ray laboratory, the naval architecture museum, and the steam laboratory.

By 1925 Open House had become an annual affair and an established tradition. People interested in the Institute showed a desire to inspect the various laboratories while they were in full operation. Students and the administration took into account when planning the affair for 1926.

Full Day Event

The first four Open Houses were held on weekday evenings, but in 1927 so much interest was shown that it was decided to open the Institute on a Saturday for the entire day.

Twenty thousand people attended the sixth Open House held in 1928. President Stratton held an informal reception in the Building 7 lobby and many had the opportunity to meet the officials of the Institute.

Entirely Student Run

Previous to 1931, a faculty committee had always been appointed to actively assist the planning of Open House. However, a tendency to let students take care of more and more of the details led the faculty committee to dissolve its own accord in 1931.

Each year larger and more enthusiastic crowds flocked to the Institute to marvel at the range of its researches. In 1933 thousands

(Continued on Page 6)

Tech Athletic Program Expands On All Fronts During Significant Year

Changes Include Physical Training For Tech Frosh

The years 1947 and 1948 will probably go down in M.I.T. history as the most significant period in the growth of athletics at Technology.

Since last Spring the concept of the role of athletics at Tech has undergone a definite evolution, and for the first time an athletic director has been employed and a freshman physical training program instituted. The organization of the Athletic Association has been altered, additional facilities have become available—every phase of Institute athletics has taken on new importance as the corporation, administration, and faculty came to an increased realization of the educational benefits to be derived from a properly administered athletic program.

Tech Leads Trend

Judged from trends now becoming evident in the U.S. colleges, Technology's philosophy of athletics is from 15 to 20 years ahead of its time according to Ivan J. Geiger, Director of Athletics. Emphasis is placed upon a well-rounded and broad intercollegiate and intramural program, enabling all students to participate in sports of their own choosing.

Technology is not endeavoring to field "hot shot" teams for publicity purposes, Mr. Geiger stresses, nor to restrict the athletic facilities to a small group of students, but rather to provide a balanced competitive program for all individuals. The philosophy is entirely, and will continue to be, strictly amateur.

Athletics for Freshmen

New impetus was given to Tech athletics last Fall by the advent of a freshman physical training program for the first time in the history of M.I.T. Administered by the Athletic Director, the program affords freshmen an opportunity to learn and compete in individual and team sports. Classes meet two hours a week, while men participating in intercollegiate sports are excused from the program.

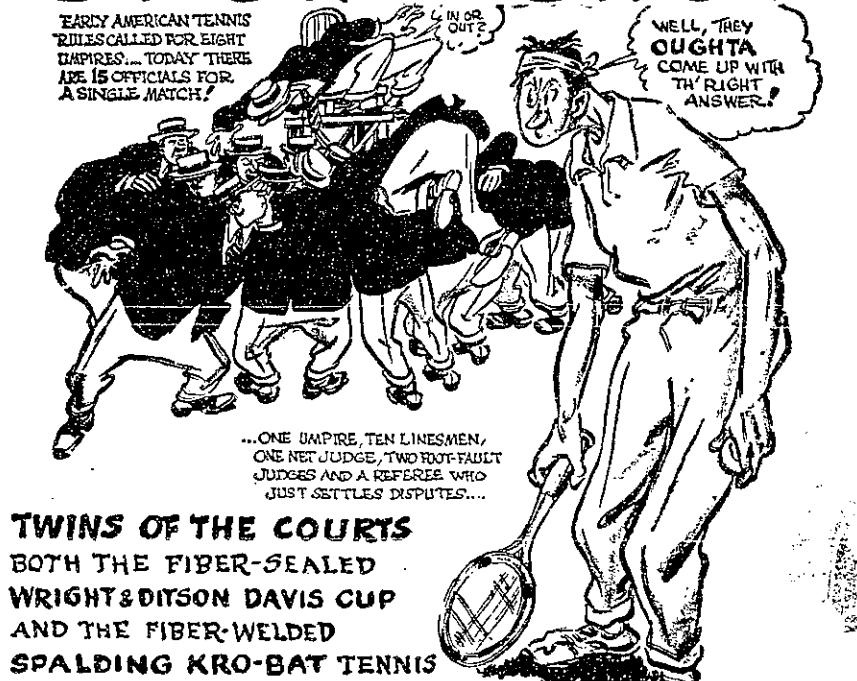
A general revision of athletic administration also occurred during the past year. The Athletic Board, previously an alumni group maintaining complete control of M.I.T. athletics, was modified to include two alumni, three students, and the Medical Director, Dean of Students and Athletic Director. The Board is now administrative in nature, making recommendations on matters of major athletic policy.

A. A. In Control

Virtually complete control of Institute athletics is in the hands of the executive committee of the Athletic Association and the A.A. itself, with the Director of Athletics acting in an advisory capacity.

The system of athletic awards was radically revised this past year. The straight "T" was eliminated, and the old type felt letter as a team award was replaced by a larger chenille "T", which is to serve for all letter award winners.

SPALDING SPORTS SHOW



TWINS OF THE COURTS

BOTH THE FIBER-SEALED WRIGHT & DITSON DAVIS CUP AND THE FIBER-WELDED SPALDING KRO-BAT TENNIS RACKETS HAVE BEEN PLAYED FOR YEARS BY THE BEST!

THANKS BUT THEY SHOULD GET IN CUP

ONE UMPIRE, TEN LINESMEN, ONE NET JUDGE, TWO NO-Fault JUDGES AND A REFEREE WHO JUST SETTLES DISPUTES...

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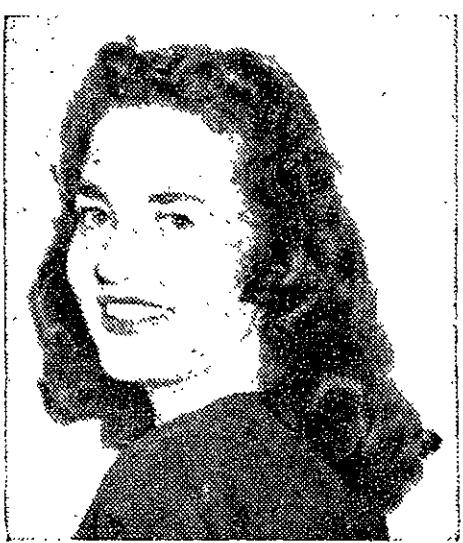
Personalities, Activities Add Luster To Tech Life



Oscar Hedlund, shown above, is one of the best known figures in Technology life. Oscar coaches the track and cross-country teams, and once a year turns soothsayer to predict the result of the freshman-sophomore Field Day competition.



G. Kendall Parmelee, '48, currently President of the Senior Class. As President, Parmelee heads the Institute Committee, the representative governing body for all Technology undergraduates.



Typical of feminine pulchritude at Technology is Joan Austin, secretary to Professor Townsend and the pride of the Mechanical Engineering Department.



Professor F. Alexander Magoun, professor of Human Relations, whose annual lectures, "In Preparation for Marriage," have enlightened freshmen for years.

MODEL TO THE LUCKY WINNER



Rogers model Anya Peters is being raffled off to Techman Bob Elliot as his date for this year's sophomore dance by the Q Club, a sophomore honorary society, which paid all expenses. The sophomore dance, "Club '50," was held in the Grand Ballroom of the Hotel Bradford in Boston, 250 couples attending.

Attention

Bachelors • Masters • Doctors

If you plan to rent a cap and gown through the Coop, your order must be placed before May 14.

Cancellation of orders will be accepted through May 24.

TECHNOLOGY STORE

MEMORABLE SCENES FROM 1948 TECH SHOW



At left villain Bob Abelson twirls, three chorus girls look pretty, and Aileen Howell looks worried as gretti removes knife from Hawkins' chest in the 1948 Tech Show, "Freres Jacques." The Tech Show annual all-Technology musical comedy, this year showed the bewilderment of an American footballer with the intricacies of Parisian life. To the right, leading man Dennis Allegretti serenades leading Aileen Howell, a student's wife. This year's production played to 3,500 spectators in a two-night stay at the Cambridge Latin High Auditorium, March 19 and 20.

5:15 CELEBRATES



The 5:15 Club, like most groups, goes to great length to publicize a dance. The association of commuters celebrated Thanksgiving by holding a dance in Walker Memorial. Shown in the photo are Geraldine R. Sapolsky and Kenneth Fertig.

VOO DOO MAKES BID FOR FAME



VOO DOO staff members break ground for the new Senior House night before the official ceremony. The next day, October 6, 1947, Compton officially did the honors. The building was designed by world-famous architect Alvar Aalto, member of the faculty. H. VOO DOO (the Institute's comic magazine?) didn't jump the breaking of the new Charles Hayden Library that was held weeks ago. Instead the first shovelful was dug by Mr. J. Willard E. president of the Charles Hayden Foundation.

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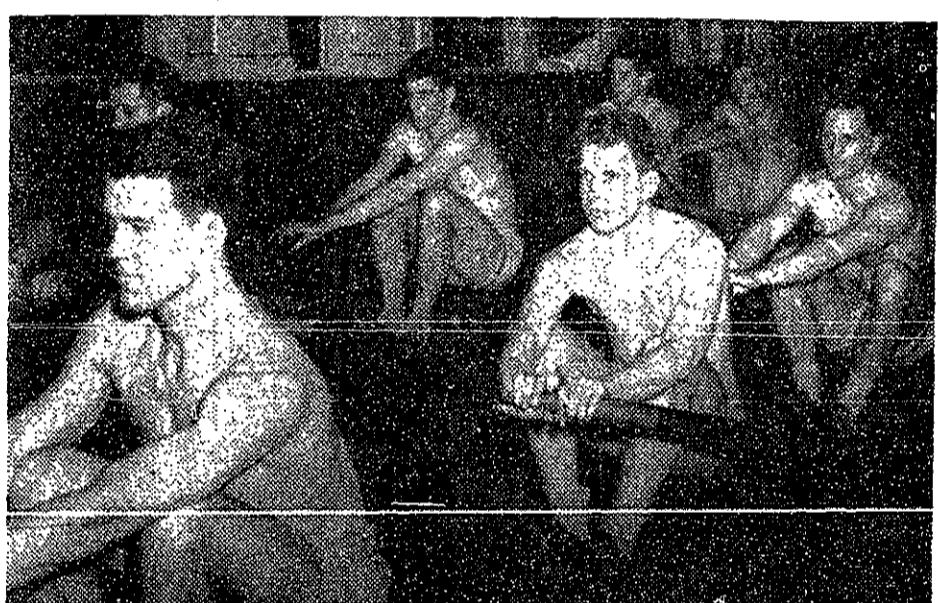
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Spotlight On Undergraduate Activities

TECHSAPOPPIN WEEKEND



The Techsapoppin weekend, December 5-6, featured a full program of sports events, dances and other events of interest. Upper left, male and female cheerleaders perform their antics at the basketball game with Boston University. Upper right, the swimming team takes to the water against Brown. Lower left, Mauzy, captain of the 165-lb. class Tech wrestling team, overcomes his Wesleyan opponent to bring the score to 18-12 in favor of Tech. Lower right, Walworth of the hockey team blocks a Boston University scoring rush.



Crew is one of the most important spring sports here at Tech, and in order to get into good condition for their early meets the crewmen practice on the rowing machines at the boathouse, while ice still covers the Charles River. Shown on the bank of machine in the foreground, in left to right, are: John Banks, Bob Silberman, and Harold Bjerke. In the background, also in the usual order, are Herb Frankel, Frank Marran, Andy Pfeiffenberger, and Bob Michel.

Athletics play an important part in Tech life—and an ever growing one. Some representative pictures are shown on this page of Tech's sports, and they give an insight into athletics at the Institute. Tech teams play many of the New England and Ivy League colleges and others such as R.P.I., Fordham, and the United States Naval and Military Academies. The teams also enter the New England and I.C.-4A meets.

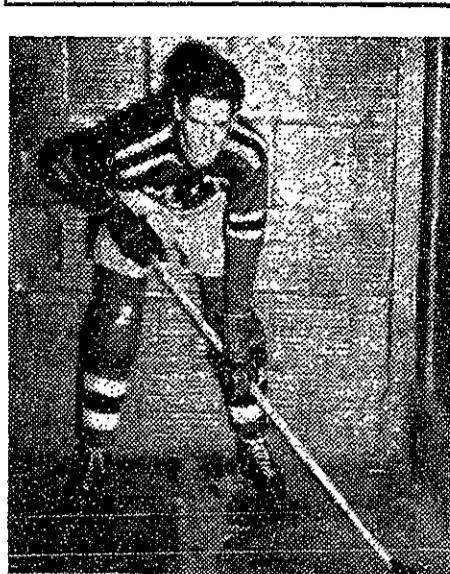
In addition to the sports pictured, Tech men take part on such teams as: basketball, sailing, tennis, fencing, squash, lacrosse, soccer, and golf. The basketball team won eight of its fourteen games this year against Brown, Trinity, Harvard, Boston University, Tufts, and others. The fencing team took three matches while losing two and placed seventh in the collegiate fencing championships in New York in March.

LEADING WRESTLERS



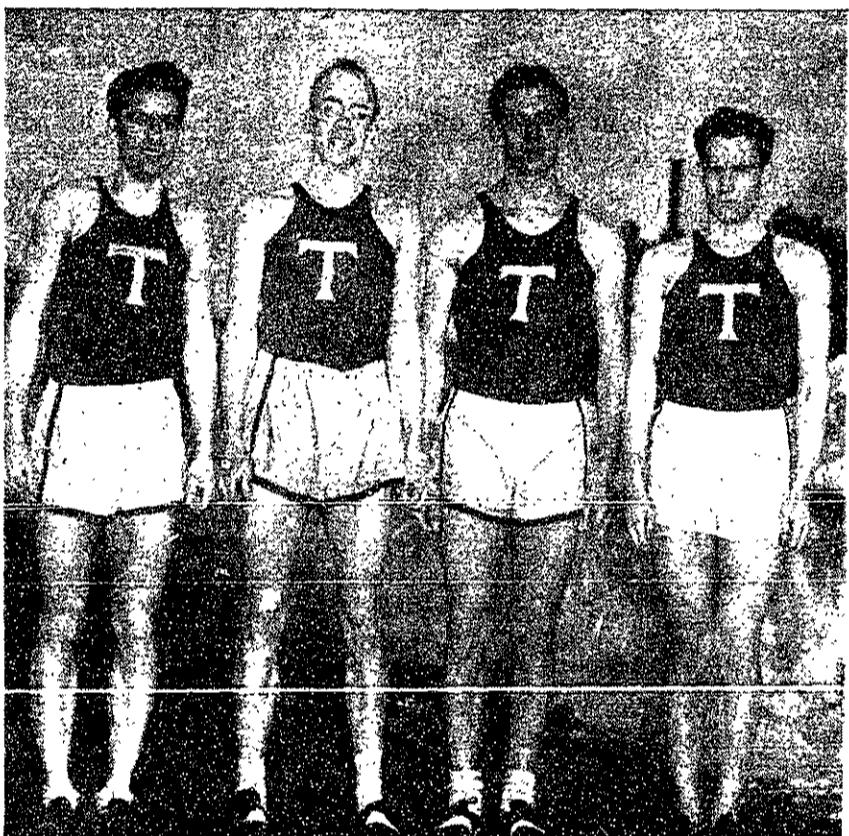
Shown above in a "playful" practice session are wrestlers Will Haggerty and Whit Mauzy, right, who paced the Beaver matmen through their 1947-48 season. Mauzy, captain of the team, and Haggerty climaxed their year's work by leading Tech to a third place in the New England Championships.

HOCKEY STAR



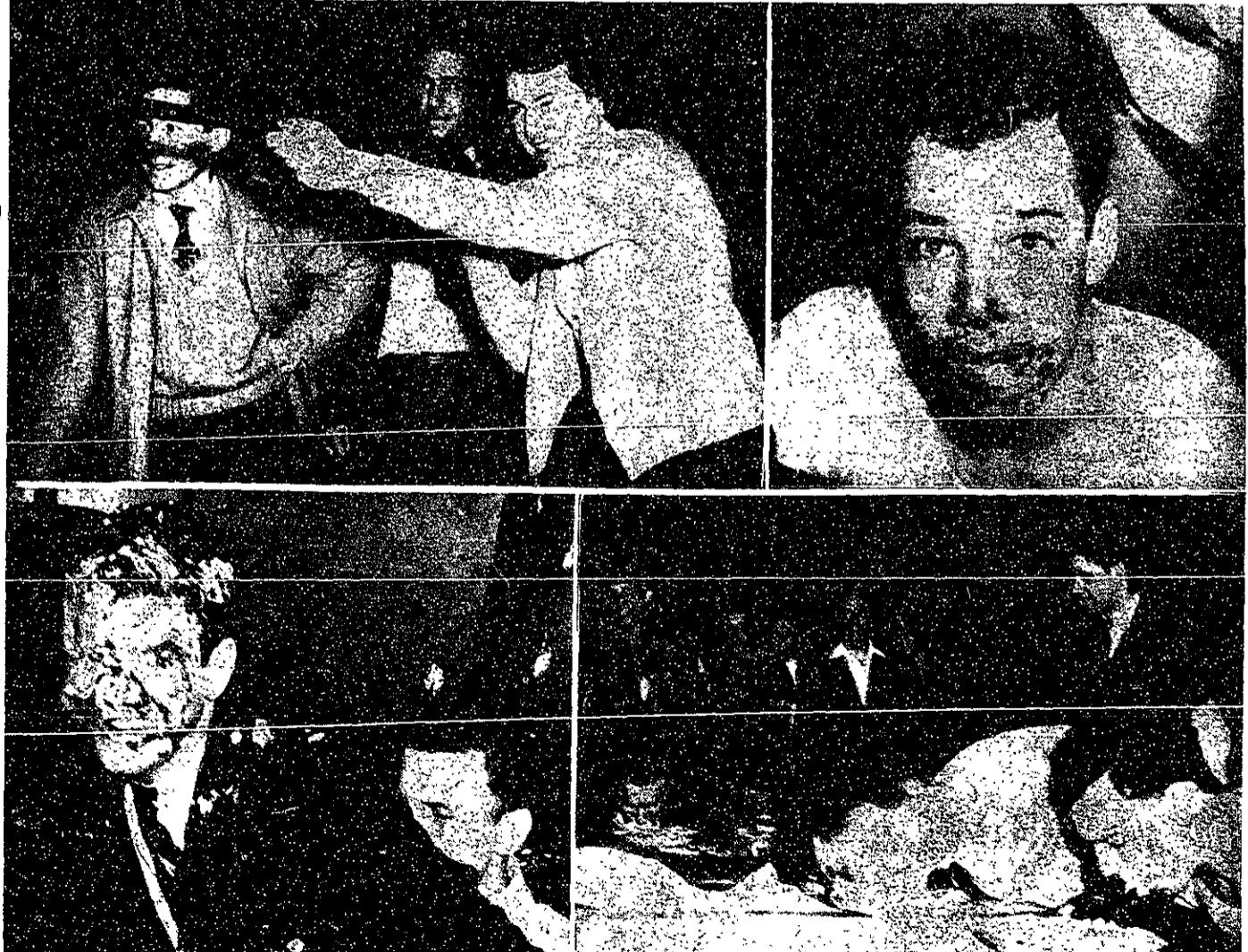
Don Lea, shown here, was the star center on Tech's hockey team during the past season. Lea, a rookie, was the leading goal scorer in the New England Hockey League, despite having missed the greater part of five games because of injuries.

VICTORIOUS TECH MILE RELAY TEAM



Pictured above is the Technology mile relay team, which showed the way to the entire track team by winning a large proportion of its races, scoring victories both at the Boston Garden and New York's Madison Square Garden. From left to right, are: Alfonse Dell Isola, Walt Wagner, Doug Vitagliano, and Hal "Inky" Ingraham.

AIR RIFLE AND LOTS OF PIE AT FROSH DANCE



Action shots of the frosh class dance held early in March. Upper left shows Tony Grunsfeld and Marvin Grossman, proprietors of one of the many booths sponsored by various activities, watching a customer try to hit the target. Upper right is Paul Smith, who shows evidence of winning the pie-eating contest. On the lower left is Ed Richards who has just received a dose of Boston Cream from angry contestants. Lower right is a shot of the pie-eaters in action.

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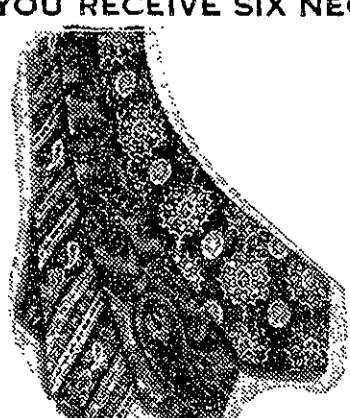
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F.S.S.P. Plans Summer Study For Europeans

Local N.S.A. Group Brings Aid To Students

In an effort to promote better international understanding and to aid in the educational reconstruction of war-devastated European countries, a group of Technology students are presently completing plans for a project that is to bring 80 European graduate students to Technology this summer.

Members of the Foreign Student Summer Project have been busily engaged since last October with numerous details of the Project. A recent visit to foreign ambassadors and State Department officials in Washington, D. C., by Earl W. Eames, '49, and Lloyd A. Haynes, '49, was successful in securing cooperation of 19 countries and \$20,000 worth of transportation to and from Europe.

The FSSP is but one of the projects of the local National Student Association. Officially organized last September in Madison, Wisconsin, the NSA now represents approximately two million students in colleges and universities in all parts of the United States. Two main interests comprise the purposes of the USNSA: national and international.

Both phases of the program point strongly toward student welfare and cooperation, both on and off campus and among the schools of the world.

In the former respect, the local NSA has conducted a cost of living survey, sponsored movies, and held a student clinic. A faculty evaluation program is being planned for next fall.

On the international scene, in addition to the FSSP, trips have been made by foreign students at the Institute to Oak Ridge, TVA with headquarters at Knoxville, and to Niagara Falls.

Sports

(Continued from Page 3)

netting material for soccer, baseball, and lacrosse practice.

Playing space on Briggs Field has also been enlarged by the grading and seeding of a large area adjacent to Westgate. When the Westgate unit itself is not useful to the Institute the construction of new athletic fields in that area is also anticipated.

Ivan J. Geiger, Director of Athletics, has also revealed plans to employ three additional full-time men next year to handle some of the coaching duties and instruction in freshman athletics, and a full-time employee to dispense sports equipment. During the past year Tech athletes could use two facilities unavailable before. The Mass. Avenue Armory provided the greatly needed space for the winter intramural program and freshman athletic classes, while for the pistol team a firing range was available in the basement of the armory. Eight hard-surface tennis courts at Briggs Field were also constructed last summer, and have found extensive use.

Operating on a budget of \$15,000—eight times the prewar figure—the Athletic Association has been

WMIT Brings Radio To Dorm Students

Plan Service to Frats And Harvard Connection

First organized in November, 1946 as part of a students' thesis project, WMIT, the Technology radio station, has rapidly increased its facilities and today the familiar sign "800 on Your Radio Dial" has become an integral part of Technology's life. Catering to the student body of the Institute, the station broadcasts popular, and classical music, in addition to many other features 29 hours a week, by means of a carrier current.

The listening audience includes members of the graduate house, undergraduate dormitories, and Building 22. Provision has already been made for bringing programs to the new senior house and it is hoped that in the future WMIT will be able to broadcast Technology to the fraternity houses. Plans are under way for hook-up with the Harvard radio station.

Programs of interest include "Latin American Rhythms." Announcing is done in both Spanish and English. This year broadcasts of home basketball games have been inaugurated and "Report to You" which features talks by members of the Corporation, including Dr. Compton, and faculty members. WMIT also broadcasts the New York Times and campus news. The station's staff includes 80 active members in the various departments.

Today, WMIT will be broadcasting until 2 a.m. Broadcasts are originating from Tyler Lounge, Walker Memorial and the Lobby of Building 10. Program will include an "Inquiring Reporter," "World Wide news," and popular and classical music.

able to furnish its teams with adequate protective gear and uniforms measuring up to the general collegiate standard.

The need for more facilities and staff members is definitely present as is evidenced by the increased use of present facilities and the fact that they prove inadequate, Mr. Geiger stated. Technicians will use the facilities if they are made efficiently available.

T.C.A. Provides Student Service

Frosh Camp, Books, Tickets, And Rooms Available Through TCA

The Technology Christian Association (TCA), a non-sectarian undergraduate organization, devotes its time and services to the student body with activities not covered by other Institute groups. Though the TCA sponsors varied religious activities, it is also outstanding in its conduction of freshman orientation, the book exchange, ticket service, Tech Cabin, and other activities.

The TCA starts off each fall with its Freshman Orientation. They publish a handbook on student life at the Institute to enlighten incoming students, and then get them together for a three-day camping period to acquaint freshmen with student activities, Tech life, and traditions.

Annual Tech Embassy

Among the TCA's religious activities is the Annual Tech Embassy each spring, which provides Technology students with a discussion of religious thought by having religious leaders come to various student living groups.

Acquaintance dances with neighboring girls' colleges and a series of lectures titled "In Preparation for Marriage," by Professor Alexander F. Magoun are included in the TCA's social services to the students. Through the TCA, students can reserve tickets at Boston theaters. In the fall, the TCA also has tickets to local Harvard and B.C. football games, and they have travel tickets available at vacation time.

Book Exchange, Employment

An up-to-date listing of rooms for rent in Boston and Cambridge, and the book exchange are popular TCA services to incoming and returning students.

Students who find it necessary to get a job can do so through TCA's employment bureau. As is usual with TCA services, all of these are of no charge to the students.

Last, but by no means least, is the TCA's boys work division. Many of the students working for the TCA act as leaders in Settlement Houses and Y.M.C.A.'s throughout greater Boston to teach crafts, arts,

and sports to younger boys. For this and other services, the TCA keeps a projector and many popular films.

Most of this work is done by Technology students interested in social work, and the funds to carry out the services are obtained through gifts during an annual TCA drive. Last year the student body showed its appreciation for the TCA by giving well over the set quota.

Open House

(Continued from Page 3)

witnessed electron bombardment demonstrations, and transmission of sound over light waves.

In 1940 Open House attracted 30,000 visitors. The new Wright Brothers Wind tunnel and an experimental solar energy unit were among the top drawing cards. Also featured was a crew race with Syracuse, Boston University and Harvard.

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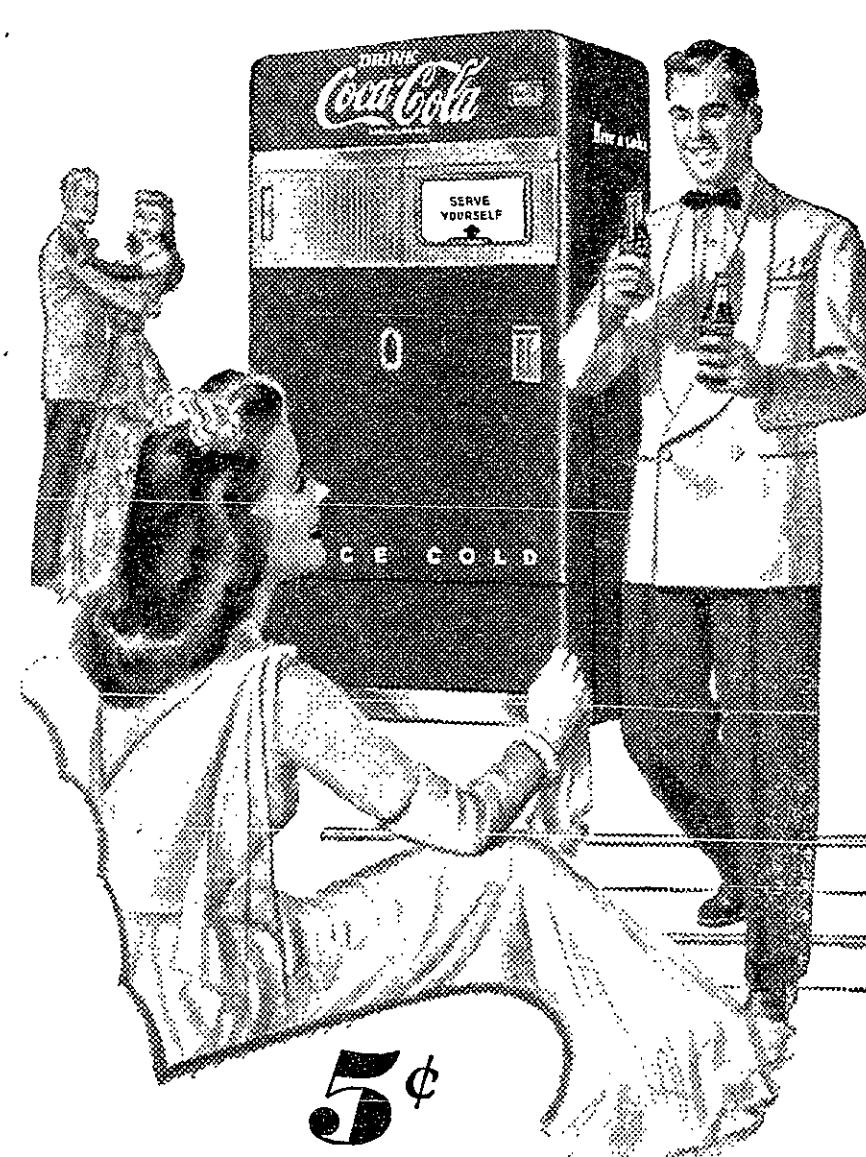
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Buildings

(Continued from Page 1)
 framework which will hold large area of glass for natural lighting. Concrete columns two stories above the ground floor begin to show the outline of the rooms in the new Senior house which is planned to be ready for occupancy by the middle of the fall term. Nearly completed is the outside

building framework of the supersonic wind tunnel of advanced design which will be used by the navy for research and development and by the staff and students of the Institute.

Long range plans include construction of new electronics, biology, food technology, and metal processing laboratories, a hydraulic lab, and a naval towing tank.

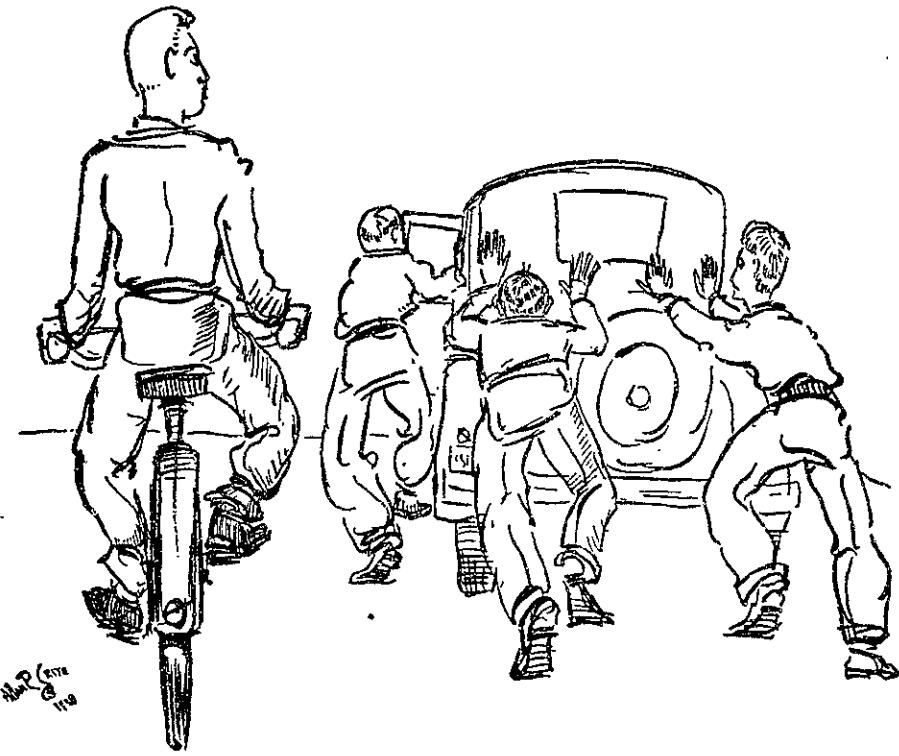
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Three Tech skippers came from behind to achieve victory by a one point margin over seven other colleges in the Sharpe Trophy Regatta, Sunday, at Brown. The M.I.T. helmsmen gained a total of 104 points for first, while Yale and Brown, the defending champion, tied for second with 103 points apiece, followed by Coast Guard 101, Harvard 86, Rhode Island State 83, Williams 61, and Dartmouth 56.

Since one of the "B" division's races had to be resailed early in the day, this division still had three races to sail when the "A" division finished in the afternoon. Charlie Bloomer, Tech's "B" division skipper, was in a rough spot. Tech was fourth and it looked as if nobody could beat Yale. Fortune finally smiled in Tech's direction as Charlie Bloomer sailed to three consecutive firsts, while Yale finished several boats behind.

Saturday and Sunday the Tech sailors will race in the I.C.Y.R.A. Eastern Dinghy Championship at Brown University for the George Owen Trophy.

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12 NOON-12 MIDNIGHT

TECHNOLOGY DINING HALLS**Walker Memorial Building****Netmen Score
Third Triumph**

**Sweep Every Match
To Crush Tufts, 9-0**

With an impressive display of strength and depth, the Technology tennis team whitewashed Tufts College, 9-0, in a match last Wednesday afternoon on the Briggs Field Courts.

It was the third consecutive victory of the young season for the Beaver netmen; moreover, each win has been by a lopsided margin. The home team demonstrated its complete domination over the Jumbos by sweeping through the six singles matches without the loss of a single set and then taking the three doubles matches while losing only one set.

On the basis of results thus far, the tennis team seems to be due for a highly successful season. The next match on the schedule is against Rhode Island State at Kingston today. On Saturday, Worcester Polytech will meet the Beavers at Briggs Field as part of the Open House festivities.

Department And Activity Exhibits For Open House

| | | | | |
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| Civil and Sanitary Engineering (I & XI) Central exhibit in Room 1-245 Movies, 1-150 Structural Dynamics laboratory, 1-050 Shock loading machines and electronic instruments Sanitary Engineering, 1-045 Drinking water treatment Water filters Portable Army field filters Sanitary Chemistry, 1-055 Activated sludge process Analysis of sewage Determination of organic nitrogen in water Sanitary Bacteriology, 1-063 Examination of water Examination of milk, cream and eating utensils Structural Analysis, 1-235 Stresses and deflections in a thin arch rib Buckling of plates Photoelasticity Photogrammetry, 1-255 Preparing maps from aerial photographs Stereoscopic views of relief maps Soil Mechanics, 1-333; 1-334 Suitability of soil for Civil engineering problems Mechanics of quicksand Hydraulics, Building 21 Lucite model of spillway High velocity chute Hydraulic shock waves Hydraulic jump Water metering devices | Metallurgy (III) Mineral Dressing Laboratories, Room 8-209 X-Ray Laboratory, 8-102 Metallography 8-102 Motion Pictures, 8-205 | Electrical Eng. (Cont.) Servomechanisms Laboratory, 4-133 Student Lab open and Servomechanism demonstrations given Center of Analysis, 3-143, 7-303, 20-C-228 and 20-C-220 Both differential analyzers on exhibit. Punch card machinery used to study meteor tracks in operation Stroboscopic Laboratory, 4-231 High speed phosphorescent silhouettes of moving objects such as falling balls, clapping hands, bursting balloons, etc., effect in slowing down rotating objects Exhibits of color photographs taken with high speed sun flash equipment Seeing the unseen-high speed movies—showing lasts about fifteen minutes Network Analyzer, Room 10-381 Open for inspection Synchrotron, Room 24-041 Visitors will be conducted and research in progress explained High-Voltage Radiation Laboratory, Room 20-B-046 Demonstration of modern recording techniques. Recordings of visitors' voices made which may be taken home Modern acoustical materials. Noise thermometer will show how sound generated by your voice changes in intensity from instant to instant Acoustic radar. Magnification of sound of a watch's ticking to enormous proportions | Business and Engineering Administration (XV) Lectures, Room 1-190 | Inter-Varsity Christian Fellowship Walker Memorial—2nd Floor Exhibits of different types of Bible Literature |
| Mechanical Engineering (II) Textile Laboratories, Room 3-315 Strain gage applications Resilience research High frequency tests Heat transmission Uniformity of yarn Micro research Old and new textile materials Fabric structure Experimental Stress Analysis Laboratory, 1-314 Polariscope in operation Rayflex fatigue machine with oscilloscope for observing dynamic strains Heat Measurements Laboratory, 7-038 Measurement of high temperatures Reflective insulation Sloan Laboratory, 31-061 Exhibits of aircraft and automotive engines Undergraduate and graduate thesis work Gas Turbine Laboratory, 31-122 Supersonic wind tunnel Mach-Zehnder interferometer Mixing of gas streams Cascade tunnel Jet propulsion engines Dynamics and Control Laboratory, 3-241 Dynamic phenomena Dynamic balancing Automatic control system Hydraulic transmission Refrigeration and Air Conditioning Laboratories, 5-007 Refrigeration equipment Machine Tool Lab., 3-340 Exhibition of machine tools Steam and Hydraulic Laboratory, 3-050 Steam and Hydraulic Lab. in operation Low Temperature Laboratory, 5-007 Mechanics of Materials and Testing Materials Laboratories, 1-110, 1-210 Plastic Floe exhibits Fatigue testing Creep testing High speed rotating disk apparatus High speed impact 200,000 lb. hydraulic testing machine Rope testing machine | Architecture (IV) Typical Drafting Room, Room 7-438 Exhibits on light and color, 5-411 Drawings around Dome, Bldg. 7 City Planning, 5-406, 5-411 Chemistry and Chemical Engineering (V & X) Fire Prevention Lecture, Room 10-250 Glass-blowing Demonstration, 6-120 Colloidal Chemistry and Exhibits, 12-031 All Research Laboratories open High velocity combustion Microanalysis Electrolytic effects Rotating mast Automobile ignition | Electrical Engineering (VI) Student Branch A.I.E.E., Room 10-160 Mechanical analogue of an electrical power system demonstrating system stability criteria Hexalpah (Course VI-A Society) Room 2-274 Pictorial display outlining the objectives of the Cooperative Course M.I.T. Television Society, Room 4-409 Complete television video generating system mounted on two standard relay racks Standard test pattern and pictures from film (possibly moving) displayed on the monitor face W.MIT, Tyler Lounge, Walker Memorial and Senior House WMIT studios in the Senior House open for inspection. Programs broadcast during the entire day from both studios and Tyler Lounge. Speakers set up for special features and announcements in lobbies of Buildings 6, 7, and 10 M.I.T. Radio Society, Room 2-245 Headquarters: Quonset Hut near the Smith House. Exhibit of up-to-date amateur radio equipment and message center established in main building. Messages relayed free of charge to any location, starting with 2-meter phone relay link from main building to Society headquarters Student Branch I.R.E., Room 4-409 A V.H.F. communication system of a transmitter and receiver in the same room Electrical Machinery Laboratory, Rooms 10-050, 10-150 Student demonstrations in electrical measurements in main measurements laboratory 10-160 Display of a cathode-ray-oscilloscope, demonstrations of vacuum tube construction and phenomena Electrical Communications Laboratory | Biology (VII) All Exhibits on fourth floor of Building 10 General Biology Electron Microscopy X-Ray diffraction Spectroscopy Enzymology Ultra-violet Microscope Movies (Yeast Cell, Vitamins) Microbiology | Mathematics (XVIII) Oscilloscope, Room 2-272 Slide Rules, 2-147 Games of Chance, 2-143 Mathematical Models, 2-139 |
| Geology (XII) Laboratories, Rooms 24-406, -407, -408, -413, -418, -422, -422A American Petroleum Research Projects Recrystallization of Minerals under High Pressure Radioactive Clock for Age Determination, Room 24-421 | Physics (VIII) Life exhibit on atomic energy, 4-355 Balloon Flight Techniques in Cosmic Ray Research, behind squash courts Cyclotron, Bldg. 44 Van de Graaf Machines, Bldg. 46 Graduate Nuclear Physics Laboratory, 8-312 Radioactivity Laboratory, 6-112 Chemistry of Fission Elements Lab., 2-115 Inorganic Chemistry using Tracer Techniques, 2-314 Van de Graaf machine for Therapy, Bldg. 28 | Homberg Infirmary First Floor Infirmary Open Exhibit of Chest X-Ray Material | Modern Languages Sample of Language Teaching and Learning Methods, Room 4-156 Display of Foreign Books, 4-142 | Technique (Yearbook) Walker Memorial—Display of old Techniques—miscellaneous pictures Description of Techniques in process of development |
| Naval Architecture and Marine Engineering (XIII) Ship Drawings and Models, Room 5-320 Propeller Club Exhibit, 5-216 Plexi-Glass Liberty Ship, 5-228 Testing Ships' Propellers, 3-269 Ship Models, Room 5-022 U.S.S. Atlanta, fight cruiser Aircraft Escort Carrier Liberty ship Hart Nautical Museum, Bldg. 5 Model from Boston Naval Shipyard | Economics and Engineering (XIV) Lectures, Room 1-390 | Westgate Cooperative Nursery School Association of Women Students Walker Memorial Poster with projection of Margaret Cheney room | The Tech—Special Issue of paper Display in Walker Memorial | The Tech Show—Walker Memorial Photographs, model stage |
| Hillel Foundation— Walker Memorial Poster | Hobby Shop—Room 4-051 Shops open with exhibits of work Posters in Walker Memorial (Inter-Fraternity Conference) | Hilltop Foundation— Walker Memorial Poster | Rocket Research Society Walker Memorial Gym—Exhibit of Rocket Engines | Faculty Art Exhibit—Room 4-282 Marine Planes Communications Sailing Pavilion |

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